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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,756	04/13/2006	Hiroyoshi Kato	1691-0218PUS1	6847
2292 7590 06/05/2009 BIRCH STEWART KOLASCH & BIRCH			EXAMINER	
PO BOX 747	CH MA 22040 0747	GREEN, ANTHONY J		
FALLS CHURCH, VA 22040-0747		ART UNIT	PAPER NUMBER	
			1793	
			NOTIFICATION DATE	DELIVERY MODE
			06/05/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Application No.	Applicant(s)					
Office Action Comments	10/575,756	KATO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Anthony J. Green	1793					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period value of reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on <u>30 A</u>	oril 2009.						
·— · · · · · · · · · · · · · · · · · ·	action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>3,4,6-15,17 and 19</u> is/are pending in t	he application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>3,4,6-15,17 and 19</u> is/are rejected.							
7) Claim(s) is/are objected to.							
•	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
a) All b) Some * c) None of:	2)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
<i>,</i>	1. Certified copies of the priority documents have been received.						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Coo the attached detailed office action for a list of the certified copies not received.							
Attachment(s) 1) Notice of References Cited (RTO 902) 1) Intension Summers (RTO 412)							
1) Notice of References Cited (PTO-892) A) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) 🔲 Information Disclosure Statement(s) (PTO/SB/08) 5) 🔲 Notice of Informal Patent Application							
Paper No(s)/Mail Date <u>04/30/2009</u> . 6)							

Application/Control Number: 10/575,756 Page 2

Art Unit: 1793

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 30 April 2009 has been entered.
- 2. Claims 3-4, 6-15, 17 and 19 are currently pending in the application.
- 3. Applicants arguments, amendments and the previously submitted declaration have overcome the previously made art rejections and accordingly they are overcome.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3-4, 6-15, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Specification No. JP2003-277111A

The Japanese reference teaches, in the abstract and machine translation, a cement composition which contains 0.2-10 mass parts per 100 mass parts of cement of a hardening accelerator which comprises slaked lime and thiosulfate, formate, nitrate

Art Unit: 1793

and/or nitrite. See also paragraph [0004] of the machine translation which recites the blending ratio of the slaked lime and other component. According to paragraph [0006] the surface area of the calcium hydroxide is more than 3000 cm²/g and more preferably more than 6000 cm²/g and that the finer the calcium hydroxide the better in promoting hardening.

The instant claims rendered obvious by the invention. It is the position of the examiner that the references disclosure of the use of a calcium hydroxide have a surface area of more than 6000 cm²/g would render obvious the instant claim limitations of "less than 2.5 microns" as it is believed that this surface area would correspond to a particle size that is within the claimed range (see for instance the Duda article cited by applicant or the office actions from the Russian patent office which discusses the relationship of surface area to particle size). Since the reference teaches that a calcium hydroxide may be utilized which has a surface area of more than 6000 cm²/g as a cement accelerator and that the greater the surface area the better the hardening promotion the instant claims are obvious. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to utilize a smaller particle size since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980) and further since the reference teaches that better hardening is achieved by selecting a higher surface area material. While the reference may teach that other components are present, the use of "comprising" allows for the addition of other components, even those that may be materially affect the basic and/or novel

Art Unit: 1793

characteristics of the invention. The range of amount of the hardening accelerator encompasses or overlaps the claimed amount. One of ordinary skill in the art at the time the invention was made would have considered the invention to have been obvious because the compositional proportions taught by the reference overlap the instantly claimed proportions and therefore are considered to establish a prima facie case of obviousness. It would have been obvious to one of ordinary skill in the art to select any portion of the disclosed ranges including the instantly claimed ranges from the ranges disclosed in the prior art reference, particularly in view of the fact that;

"The normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages", In re Peterson 65 USPQ2d 1379 (CAFC 2003).

Also, In re Geisler 43 USPQ2d 1365 (Fed. Cir. 1997); In re Woodruff, 16 USPQ2d 1934 (CCPA 1976); In re Malagari, 182 USPQ 549, 553 (CCPA 1974) and MPEP 2144.05. With respect to the claims reciting the addition of calcium aluminate it should be noted that since no lower limit is recited, this component is an optional component. Accordingly the instant claims are obvious over the reference.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony J. Green whose telephone number is (571)272-1367. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry A. Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/575,756 Page 5

Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Anthony J Green/ Primary Examiner Art Unit 1793

ajg June 2, 2009